

Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided.

Name: _____

1. [3 pts] Compute $\int \frac{8 \sin(3x)}{\cos^6(3x)} dx$

Answer: _____

2. [3 pts] Compute $\int \frac{6x}{\sqrt{x+1}} dx$.

Answer: _____

3. [4 pts] An alien plant grows at the rate $H'(t) = \frac{1}{\sqrt[3]{8t+3}}$ inches per day, t days after it was planted. How many inches will the height of the plant change on the third day? (Round your answer to three decimal places.)

Answer: _____

The End.